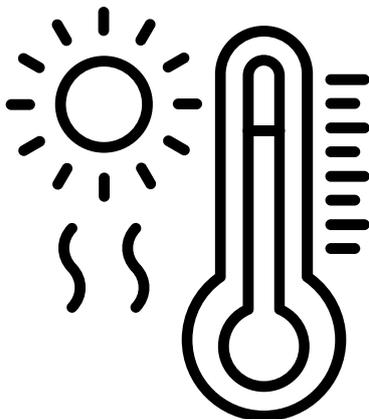**Name:**

Weather and Climate

Weather and climate are both ways to describe the conditions of the atmosphere, but they are different. Weather refers to the short-term conditions in a specific place, such as temperature, rain, wind, or snow on a particular day. For example, it might be sunny and warm in the morning but cloudy and rainy in the afternoon. Weather can change from hour to hour or day to day.

Climate, on the other hand, is the average weather over a long period of time, usually over many years. Climate tells us what the weather is normally like in a certain region. For example, deserts have a hot and dry climate, while polar regions are very cold most of the year. Climate affects the types of plants, animals, and human activities that can survive in an area.

Weather is measured using tools such as thermometers (for temperature), rain gauges (for rainfall), anemometers (for wind speed), and barometers (for air pressure). Meteorologists study weather to make forecasts that help people plan their daily activities, prepare for storms, and stay safe.

Climate is influenced by factors such as latitude, altitude, proximity to oceans, and ocean currents. Understanding climate is important because it helps farmers decide what crops to grow, helps cities plan for water and energy use, and helps scientists study changes in the environment, including global warming.

Both weather and climate are important for life on Earth. Weather affects our daily routines, while climate affects long-term planning and survival for humans, animals, and plants. Learning about weather and climate helps people make better decisions and understand the natural world around them.

Name:

A. Multiple Choice (Choose the correct answer):

What is weather?
a) The average climate over many years
b) Short-term atmospheric conditions in a specific place
c) Only rainfall
d) Only temperature

What is climate?
a) Short-term changes in temperature
b) Long-term average weather patterns in a region
c) A type of storm
d) Daily sunshine

Which tool is used to measure rainfall?
a) Thermometer
b) Rain gauge
c) Anemometer
d) Barometer

Which factor can influence climate?
a) Altitude
b) The color of the soil
c) Daily news
d) Shoe size

B. True or False:

- 5. Weather can change from hour to hour or day to day. _____
- 6. Climate affects what plants and animals can live in a region. _____
- 7. Meteorologists study climate to forecast the weather every day. _____

Name:

Answer the following questions:

.Give one example of how weather affects daily life.

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Name two tools used to measure weather.

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Why is climate important for farmers?

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What is the difference between weather and climate?

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How does learning about climate help humans prepare for the future?

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